



**PEO**  
**DIGITAL**

PROGRAM EXECUTIVE OFFICE DIGITAL & ENTERPRISE SERVICES

# Core IT Infrastructure: NGEN-R Transition (SMIT, EUHW, Keystone)

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PMW 205

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**FY20-21: Execute multiple simultaneous transitions to SMIT and EUHW contracts**

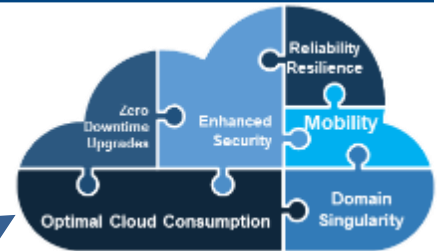
**FY22+: Launch Transformation**

Network transformation is the rationalization, standardization, convergence, and/or modernization of infrastructure, processes, policies and services.

Funding of Naval Digital Platform transformation

VS.

Funding multiple transformations of legacy networks to meet fleet digital needs



**Navy Digital Platform**

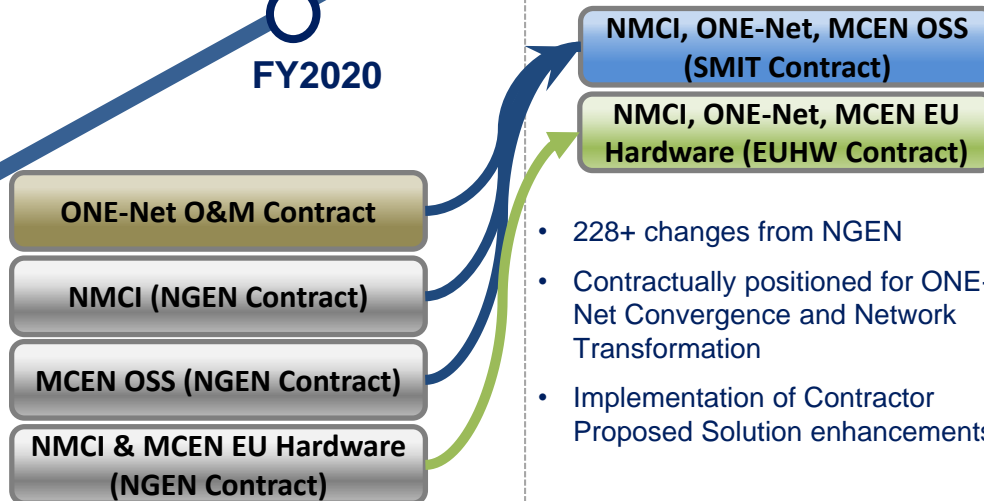
**FY2022 +**

**Shift from**  
**Transition to Transformation**

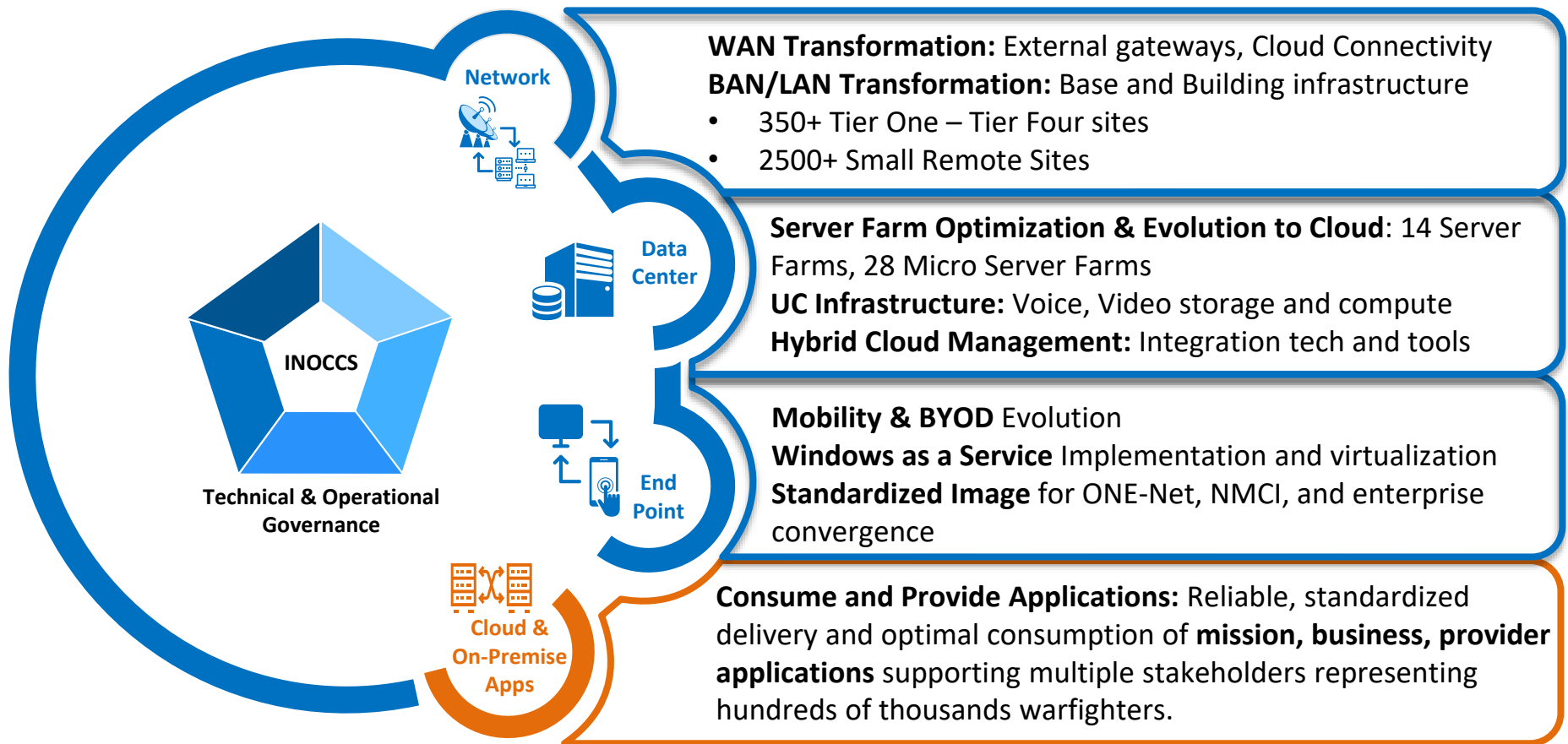
- BAN/LAN Transformation
- WAN Transformation
- UC Infrastructure Deployment
- Mobility & BYOD Evolution
- Windows as a Service Implementation
- INOCCS Implementation
- Hybrid Cloud Management Launch
- 5G Integration & Launch
- Server Farm Optimization & Evolution to Cloud-Enabled IPNs
- Unified End-Point (SIPR/NIPR Convergence)
- SIPR Evolution to CSfC
- NEN Development Lab

**FY2020**

**FY2021**

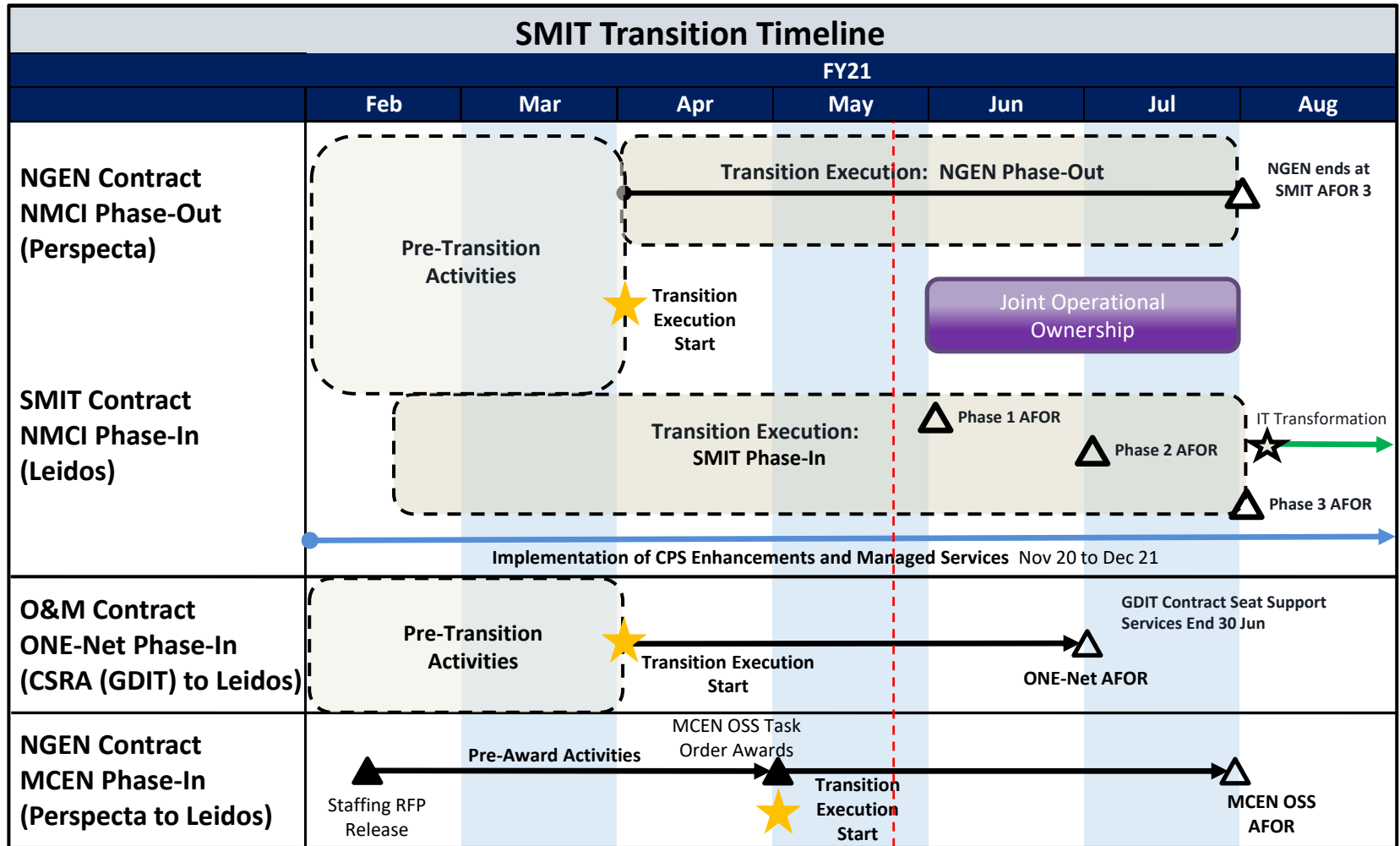


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Navy Investments Must Balance Cloud Migration with Network Transformation

# Overall SMIT Transition Schedule



NGEN – Next Generation Enterprise Network  
 SMIT – Service Management, Integration and Transport  
 AFOR – Assumption of Full Operational Responsibility  
 CPS – Contractor Proposed Solutions

Today

ONE-Net – OCONUS Navy Enterprise Network  
 MCEN – Marine Corps Enterprise Network  
 OSS – Operational Support Services

- Over 66,000 devices delivered to end users as of 3 May 2021
- All devices include faster processors, Solid State Drives (SSDs), and increased RAM
  - Annual review of the technical specification completed through a State of the Shelf (SOTS) review allows annual updates to device specifications

CONFIGURATION	General Purpose Desktop	Ultra-Small Desktop	Mid-Range Desktop	High Performance Desktop	General Purpose Laptop	Mid-Range Laptop	High Performance Laptop
Model	HP ProDesk 600 G6 Microtower	HP EliteDesk 800 G6 Desktop Mini	HP ProDesk 600 G5 Microtower	HP Z6 G4 Workstation	HP EliteBook 845 G7	HP Zbook Power G7	HP Zbook 17 G7 Mobile Workstation
Processor	i5-10500	i5-10500	i7-9700	Xeon Gold 6226	Ryzen 5 Pro 4650U	i7-10850H	i9-10885H
Cores/Threads	6/12	6/12	8/8	12/24	6/12	6/12	8/16
Base/Boost Clock Speed GHz	3.1/4.5	3.1/4.5	3.0/4.7	2.7/3.7	2.1/4.0	2.7/5.1	2.4/5.3
TDP	65W	65W	65W	125W	15W	45W	45W
Memory	16 GB	16 GB	32 GB	256 GB	16 GB	32 GB	64 GB
Storage	512 GB SSD	512 GB SSD	1 TB SSD	2 TB SSD	512 GB SSD	1 TB SSD	2 TB SSD

- Project KEYSTONE is the deployment of the ONE-Net accredited System Center Configuration Manager (SCCM) solution to the NMCI enterprise for Navy consumption
- SCCM will be **replacing Radia** for WIN 10 workstations as the means to provide software updates, application deployment, device management, and Operating System deployment to workstations

## KEYSTONE Deliverables:

- Automation to **enhance capability** and **reduce toil**
- Mechanism to maintain and enforce baseline with optimized endpoints and endpoint security
- EUHW image delivered to HP Federal and PMW 205
- Navy Single Image



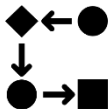
## Network

- Discovered workstation image & network **inefficiencies**
- Spearheaded path for a GO/GO/CO model on CONUS NMCI
- Acquired **domain network permissions** to AD, Radia, Tanium
- SCCM image accredited for NMCI; **ATO extended** for both domains
- Customizable SPOG with **automated reporting** on health of the infrastructure



## Imaging & Applications

- Analyzed all core applications; accounted for deltas between environments
- Non-FAM approved software discovered on NMCI; removed from SCCM
- Reduced total load of application in the environment



## Process

- NNWC ECCB/ICCB completed and approved for full production solution
- Completed Fielding Technical Review (FTR) with NAVWAR 5.0 TWHs, APEO-E and APM-Es



## Testing

- Executed network data transfer tests with NOC Networking Engineering Team to monitor bandwidth saturation levels
  - SCCM data transfer **did not impact bandwidth**



Need industry's innovative solutions for flattening network, zero trust, cloud native and domain singularity.



Application journey complements the infrastructure journey.



We need our stakeholders to provide technical and operational governance at the all levels to pivot the network.



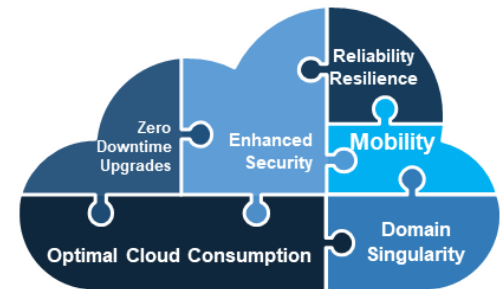
Relentlessly push us outside of our box with feedback



Partner with us to achieve Navy Digital Outcomes.



Measure success, share failures, celebrate wins, & repeat.



Navy Digital Platform

**Our transformational journey requires industry and stakeholder support.**





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